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(54) Title: NUCLEIC ACIDS FOR DETECTING <i>ASPERGILLUS</i> SPECIES AND OTHER FILAMENTOUS FUNGI			
(57) Abstract Nucleic acids for detecting <i>Aspergillus</i> species and other filamentous fungi are provided. Unique internal transcribed spacer 2 coding regions permit the development of nucleic acid probes specific for five different species of <i>Aspergillus</i> , three species of <i>Fusarium</i> , four species of <i>Mucor</i> , two species of <i>Penicillium</i> , five species of <i>Rhizopus</i> , one species of <i>Rhizomucor</i> , as well as probes for <i>Absidia corymbifera</i> , <i>Cunninghamella elagans</i> , <i>Pseudallescheria boydii</i> , and <i>Sporothrix schenkii</i> . The invention thereby provides methods for the species-specific detection and diagnosis of infection by <i>Aspergillus</i> , <i>Fusarium</i> , <i>Mucor</i> , <i>Penicillium</i> , <i>Rhizopus</i> , <i>Rhizomucor</i> , <i>Absidia</i> , <i>Cunninghamella</i> , <i>Pseudallescheria</i> or <i>Sporothrix</i> in a subject. Furthermore, genus-specific probes are also provided for <i>Aspergillus</i> , <i>Fusarium</i> and <i>Mucor</i> , in addition to an all-fungus nucleic acid probe.			

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